

# Cytometer Performance Report

Cytometer: FACSCantoII  
 Cytometer Name: FACSCantoII  
 Serial Number: V33896201821  
 Input Device: Carousel  
 Tube Loaded Manually: Yes  
 Cytometer Configuration: Euroflow 3-laser, 8-color (4-2-2)

User: Administrator  
 Institution: N/A  
 Software: BD FACSDiva 8.0.2  
 Date: 06/08/2018 09:55 AM  
 Cytometer Baseline: 05/12/2018 04:21 PM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910859  
 Lot ID: 80291 Expiration Date: 02/29/2020  
 Bead Lot Information: Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 125441              | 0                         | 1.62                    | 125474                  | 1.57                 |
| Blue   | F        | SSC         | 125000       | 123518              | -2                        | 1.70                    | 124239                  | 1.75                 |
| Blue   | E        | FITC        | 15760        | 15294               | -3                        | 2.91                    | 331                     | 22.62                |
| Blue   | D        | PE          | 25880        | 25252               | -3                        | 1.96                    | 550                     | 17.02                |
| Blue   | B        | PerCP-Cy5-5 | 34075        | 33952               | -1                        | 4.24                    | 1036                    | 22.90                |
| Blue   | A        | PE-Cy7      | 22776        | 22977               | 0                         | 7.35                    | 553                     | 45.91                |
| Red    | C        | APC         | 42488        | 41943               | -2                        | 2.67                    | 1591                    | 13.27                |
| Red    | A        | APC-Cy7     | 24478        | 23900               | -3                        | 2.79                    | 820                     | 12.75                |
| Violet | B        | V450        | 6304         | 6156                | -3                        | 3.96                    | 345                     | 17.11                |
| Violet | A        | V500        | 26005        | 24970               | -4                        | 3.38                    | 585                     | 12.52                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 20892                   | 6.72                 | 607  | 10     | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 55868                   | 1.21                 | 571  | 16     | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 58                      | 74.13                | 561  | 5      | 0.0155 | 191  | Pass |
| Blue   | D        | PE          | 116                     | 57.16                | 555  | 6      | 0.1201 | 275  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 195                     | 54.40                | 655  | 8      | 0.0071 | 27   | Pass |
| Blue   | A        | PE-Cy7      | 109                     | 112.15               | 709  | 12     | 0.0088 | 24   | Pass |
| Red    | C        | APC         | 376                     | 27.77                | 601  | 1      | 0.0199 | 121  | Pass |
| Red    | A        | APC-Cy7     | 201                     | 29.12                | 572  | 1      | 0.0051 | 1498 | Pass |
| Violet | B        | V450        | 57                      | 72.91                | 491  | 2      | 0.0265 | 1910 | Pass |
| Violet | A        | V500        | 87                      | 43.51                | 507  | 1      | 0.0145 | 1033 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)  
 Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)  
 Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)  
 Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                     | -31.54                 | -30.88                          | 0.95                |
| Blue   | 20.34      | 16.27 - 24.41    | 1.27         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.40                |
| Red    | 16.26      | 13.60 - 20.40    | N/A          | N/A                     | 30.76                  | 31.38                           | 1.20                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 11567

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments